**HTML Section 5 – Tables**

* Tables allow you to present information in an arrangement of rows and columns
* A table is divided into rows with the <tr> tag. (tr stands for table row)
* A row is divided into data cells with the <td> tag. (td stands for table data)
* A row can also be divided into headings with the <th> tag. (th stands for table heading)
* The <td> elements are the data containers in the table.
* The <td> elements can contain all sorts of HTML elements like text, images, lists, other tables, etc.

**Examples**

1. ***How to create a basic table in HTML.***

**Source code for a simple table:**

<!DOCTYPE html>

<html>

<body>

<p>

HTML tables start with a table tag.<br>

Table rows start with a tr tag.<br>

Table data start with a td tag.

</p>

<hr>

<h3>1 Column:</h3>

<table>

<tr>

<td>100</td>

</tr>

</table>

<hr>

<h3>1 Row and 3 Columns:</h3>

<table>

<tr>

<td>100</td>

<td>200</td>

<td>300</td>

</tr>

</table>

<hr>

<h3>3 Rows and 3 Columns:</h3>

<table>

<tr>

<td>100</td>

<td>200</td>

<td>300</td>

</tr>

<tr>

<td>400</td>

<td>500</td>

<td>600</td>

</tr>

<tr>

<td>700</td>

<td>800</td>

<td>900</td>

</tr>

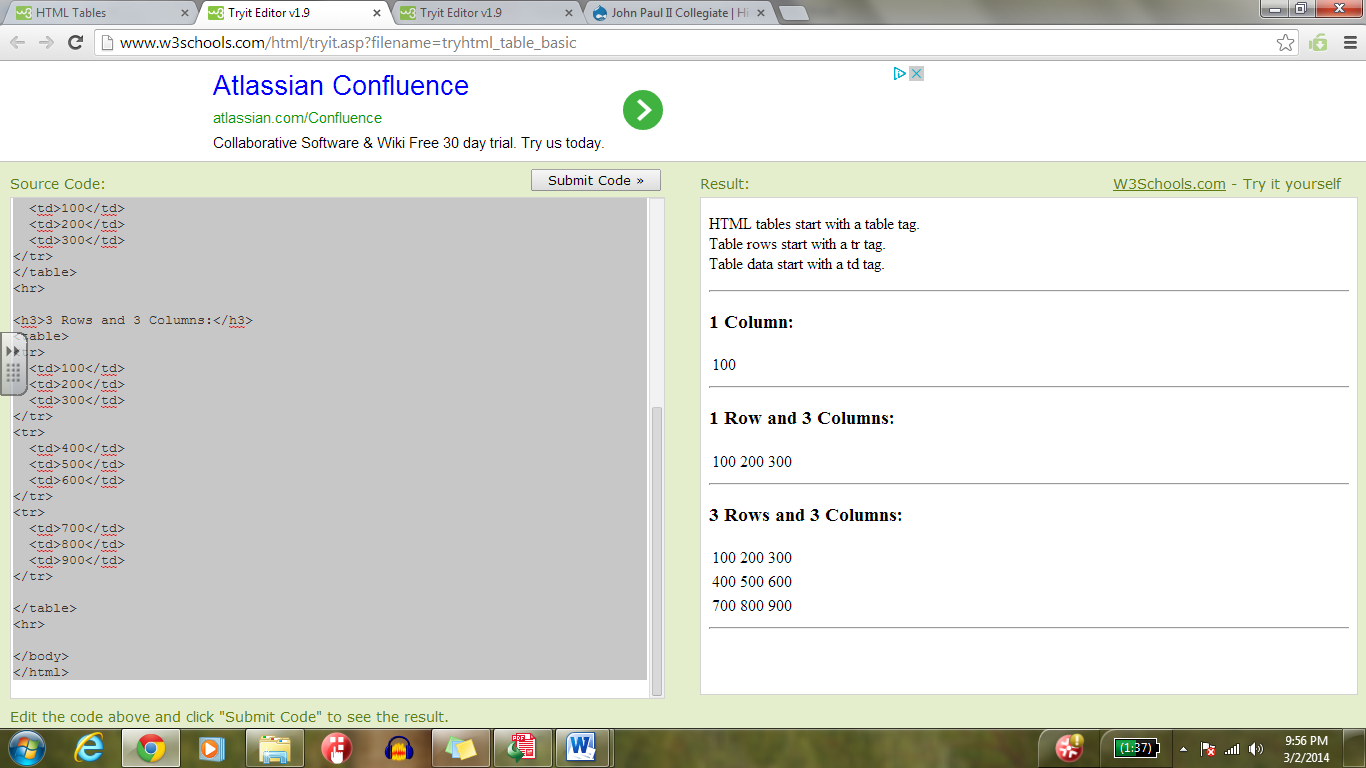
</table>

<hr>

</body>

</html>

**End result:**



1. ***Creating a table without borders. If you don’t specify a border, the table will be created without one.***

**Sample source code for a End result:**

**table without borders:**



<!DOCTYPE html>

<html>

<body>

<table style="width:300px">

<tr>

<td>Jill</td>

<td>Smith</td>

<td>50</td>

</tr>

<tr>

<td>Eve</td>

<td>Jackson</td>

<td>94</td>

</tr>

<tr>

<td>John</td>

<td>Doe</td>

<td>80</td>

</tr>

</table>

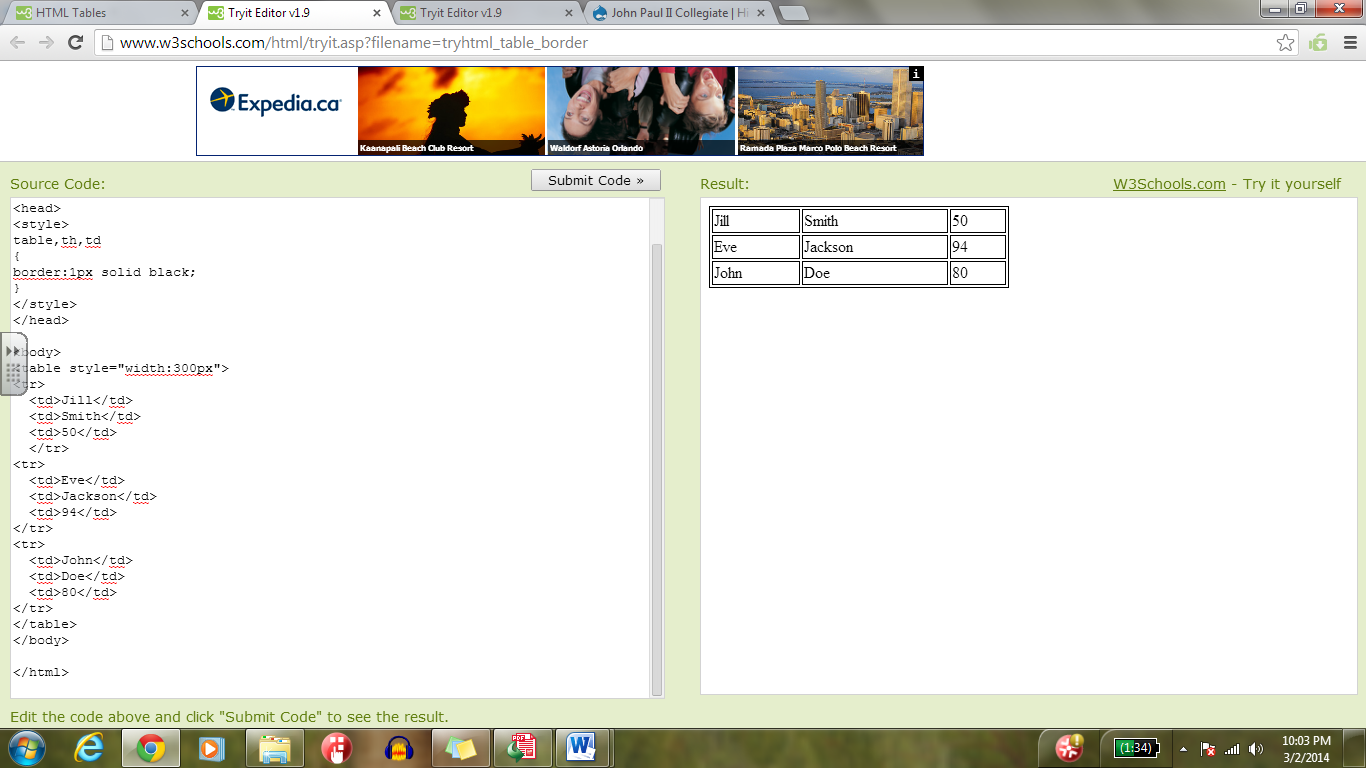
</body>

</html>

1. ***A border can be added using the border attribute:***

**Sample source code for a End Result:**

**table with borders:**



<!DOCTYPE html>

<html>

<head>

<style>

table,th,td

{

border:1px solid black;

}

</style>

</head>

<body>

<table style="width:300px">

<tr>

<td>Jill</td>

<td>Smith</td>

<td>50</td>

</tr>

<tr>

<td>Eve</td>

<td>Jackson</td>

<td>94</td>

</tr>

<tr>

<td>John</td>

<td>Doe</td>

<td>80</td>

</tr>

</table>

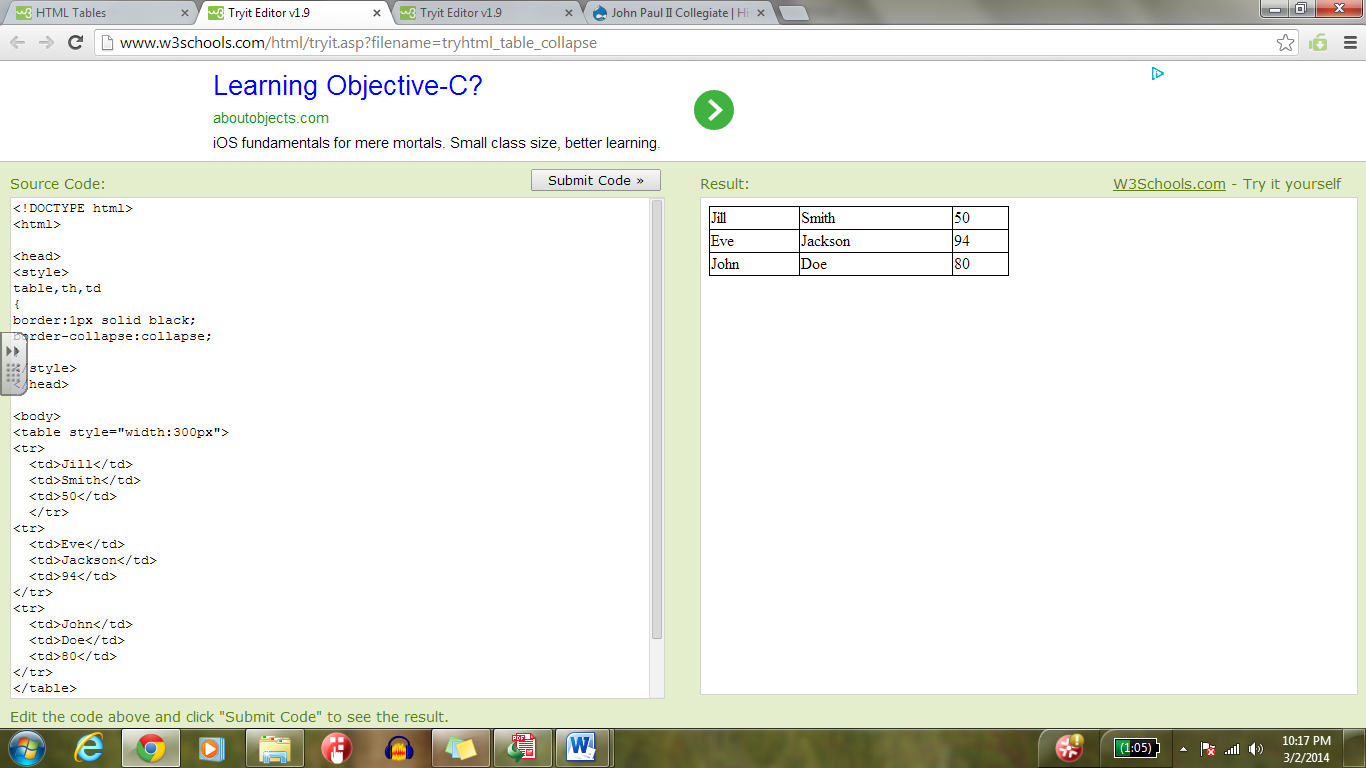
</body>

</html>

1. ***If you want the borders to collapse into one border, add border-collapse to your CSS:***

**Sample source code for a table End result:**

**with collapsed borders:**



<!DOCTYPE html>

<html>

<head>

<style>

table,th,td

{

border:1px solid black;

border-collapse:collapse;

}

</style>

</head>

<body>

<table style="width:300px">

<tr>

<td>Jill</td>

<td>Smith</td>

<td>50</td>

</tr>

<tr>

<td>Eve</td>

<td>Jackson</td>

<td>94</td>

</tr>

<tr>

<td>John</td>

<td>Doe</td>

<td>80</td>

</tr>

</table>

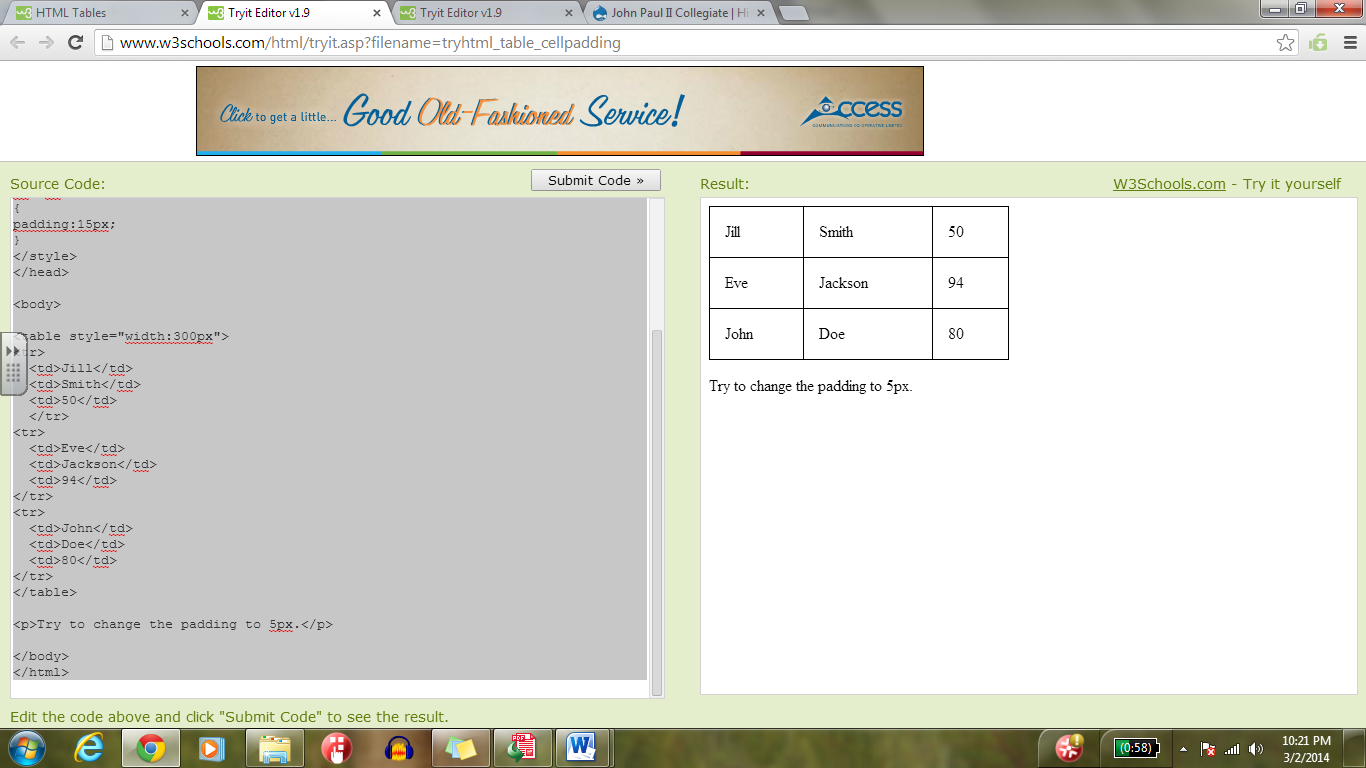
</body>

</html>

1. ***Cell padding specifies the space between the cell content and its borders. If you do not specify a padding, the table cells will be displayed without padding.***

**Sample source code for a table End result:**

**with cell padding:**

<!DOCTYPE html>

<html>

<head>

<style>

table, th, td

{

border-collapse:collapse;

border:1px solid black;

}

th, td

{

padding:15px;

}

</style>

</head>

<body>

<table style="width:300px">

<tr>

<td>Jill</td>

<td>Smith</td>

<td>50</td>

</tr>

<tr>

<td>Eve</td>

<td>Jackson</td>

<td>94</td>

</tr>

<tr>

<td>John</td>

<td>Doe</td>

<td>80</td>

</tr>

</table>

<p>Try to change the padding to 5px.</p>

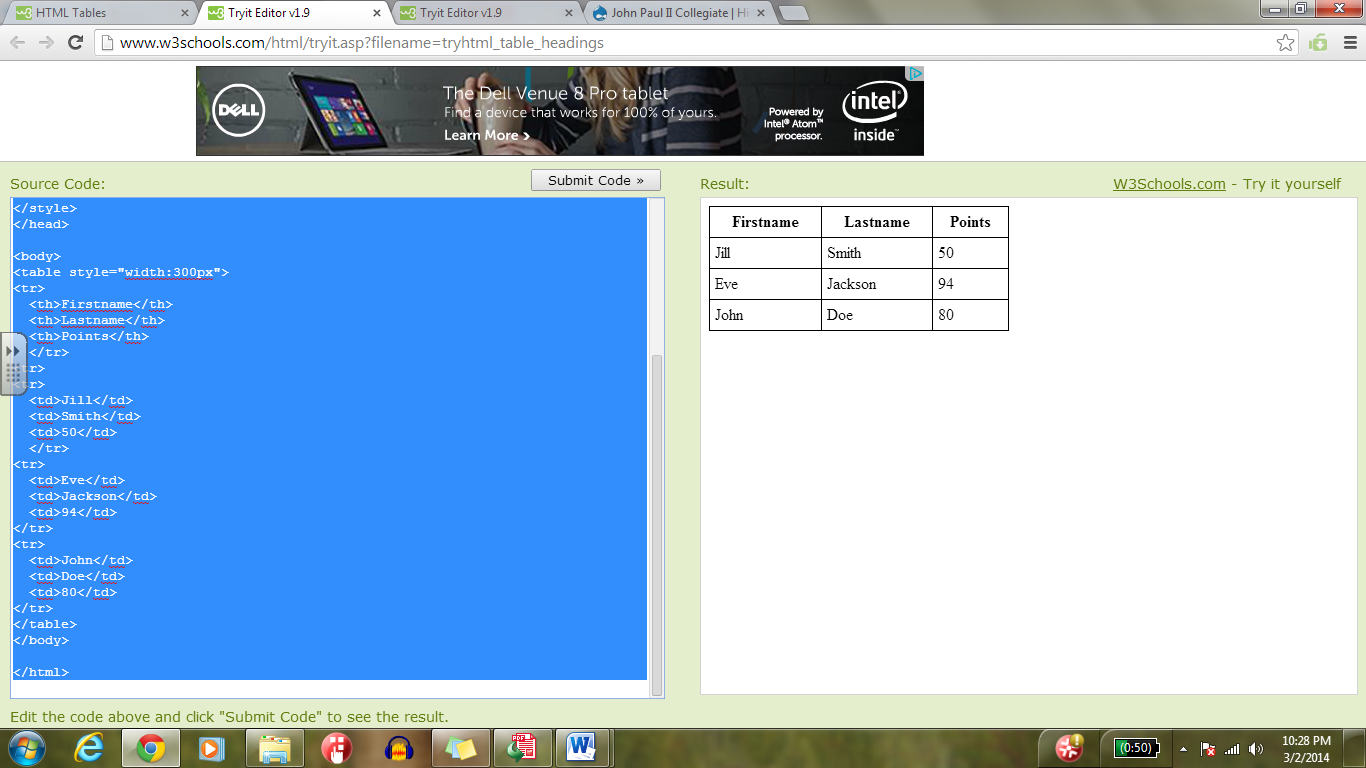
</body>

</html>

1. ***Table headings are defined with the <th> tag. By default, all major browsers display table headings as bold and centered:***

**Sample source code for a table End result:**

**with table headings:**

<!DOCTYPE html>

<html>

<head>

<style>

table,th,td

{

border:1px solid black;

border-collapse:collapse;

}

th,td

{

padding:5px;

}

</style>

</head>

<body>

<table style="width:300px">

<tr>

<th>Firstname</th>

<th>Lastname</th>

<th>Points</th>

</tr>

<tr>

<tr>

<td>Jill</td>

<td>Smith</td>

<td>50</td>

</tr>

<tr>

<td>Eve</td>

<td>Jackson</td>

<td>94</td>

</tr>

<tr>

<td>John</td>

<td>Doe</td>

<td>80</td>

</tr>

</table>

</body>

</html>

**Row and column alignment**

* **Horizontal alignment – left, center, right**
* **Vertical alignment – top, middle, bottom**

|  |  |
| --- | --- |
| Tag/Attribute | Explanation |
| <td align = "left"> | Horizontal alignment within cells. Options: left, center, right |
| <td valign = "bottom"> | Vertical alignment within cells. Options: top, middle, bottom |
| <table height = "50"> | Sets the height of the whole table. |
| <tr height = "30"> | Sets the height of the whole row. |
| <table bgcolor = "limegreen"> | Changes the background colour of your whole table. |
| <tr bgcolor = "blue"> | Changes the background colour of a whole row. |
| <td bgcolor = "red"> | Changes the background colour of a single cell. |

HTML Table Tags

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<table>](http://www.w3schools.com/tags/tag_table.asp) | Defines a table |
| [<th>](http://www.w3schools.com/tags/tag_th.asp) | Defines a header cell in a table |
| [<tr>](http://www.w3schools.com/tags/tag_tr.asp) | Defines a row in a table |
| [<td>](http://www.w3schools.com/tags/tag_td.asp) | Defines a cell in a table |
| [<caption>](http://www.w3schools.com/tags/tag_caption.asp) | Defines a table caption |
| [<colgroup>](http://www.w3schools.com/tags/tag_colgroup.asp) | Specifies a group of one or more columns in a table for formatting |
| [<col>](http://www.w3schools.com/tags/tag_col.asp) | Specifies column properties for each column within a <colgroup> element |
| [<thead>](http://www.w3schools.com/tags/tag_thead.asp) | Groups the header content in a table |
| [<tbody>](http://www.w3schools.com/tags/tag_tbody.asp) | Groups the body content in a table |
| [<tfoot>](http://www.w3schools.com/tags/tag_tfoot.asp) | Groups the footer content in a table |